

Plant Location and Layout

During the two irrigation seasons the demonstration plant operated, two sources supplied feed water to the demonstration plant. The first source, used during the year 2000, was from a tile drain system. David Bloemhof, the owner of Bloemhof Farms, where the demonstration plant was located, installed this tile drain system.

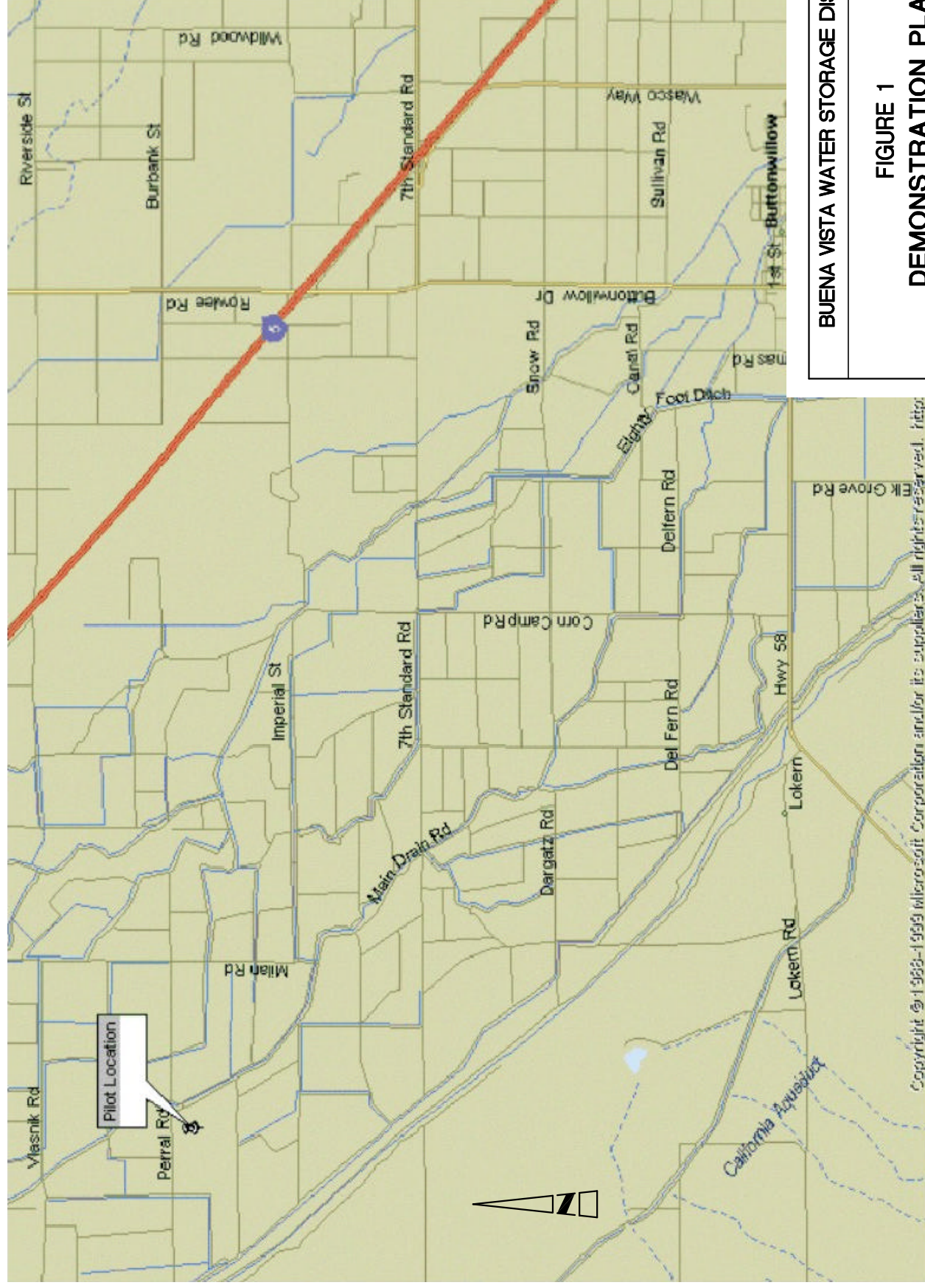
A location map is provided in **Figure 1, Demonstration Plant Location Map**.

Figure 2, Tile Drain Layout, shows the tile drain system and demonstration plant site in relation to the drainage problem areas of Bloemhof Farms.

The second source of feed water, used during 2002, was two shallow wells drilled in December of 2001. **Figure 3, Well Location Map**, shows the locations of the two wells and the shallow piezometer wells in reference to the RO demonstration plant. The differences in water quality of each source are discussed in the next section.

The demonstration plant was located adjacent to a Bloemhof Farms' drainage water sump. Water flowed into the sump from the tile drain system and was pumped to the RO prefiltration equipment. Following the RO desalting process, both the permeate and the concentrate were returned to the drainage sump.

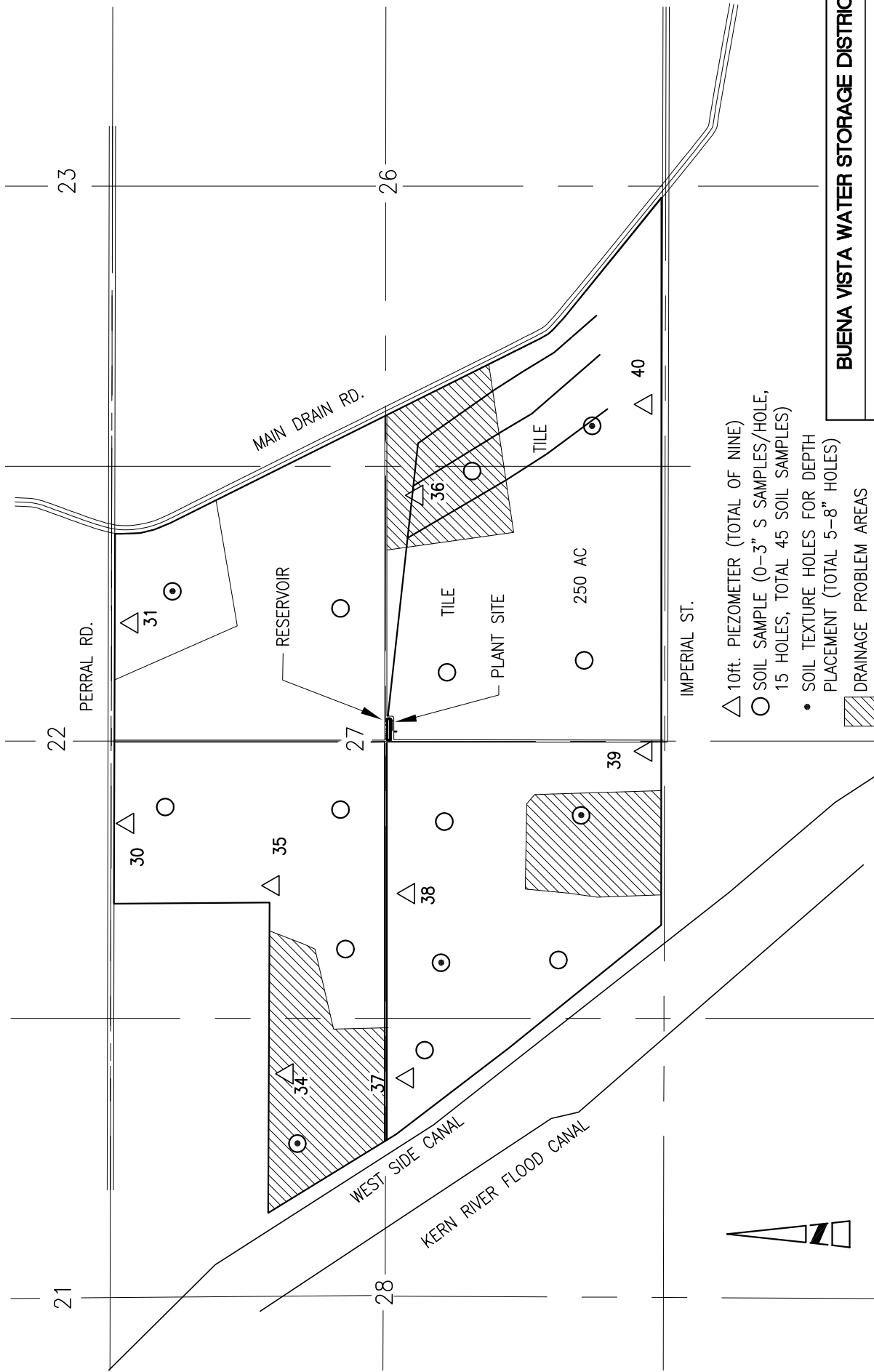
In addition to the treatment equipment, an office trailer was situated at the site to serve as a facility for the operator to perform analytical tests, and to house the monitoring computer.



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FIGURE 1
DEMONSTRATION PLANT
LOCATION MAP

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FIGURE 2
TILE DRAIN LAYOUT

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